

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/005590

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B26D7/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B26D A46B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AM X	DE 22 25 152 A1 (MESSERFABRIK NEUENKAMP GMBH, 5630 REMSCHEID) 6 December 1973 (1973-12-06)	1, 2, 7, 9, 11
Y	page 3, paragraph 2 - paragraph 3 page 8, paragraph 1; figures	3-6, 8
AE Y	US 3 618 436 A (DONALD A. BROWN) 9 November 1971 (1971-11-09)	3
X	column 1, line 67 - line 70; figures	11
AG Y	US 3 285 642 A (SAUER LOUIS E) 15 November 1966 (1966-11-15)	4, 5
Y	figure 13	
AF Y	US 3 604 302 A (CRAIG W. SMYTHE) 14 September 1971 (1971-09-14)	3
	column 3, line 10 - line 20; figure 4	
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

8 August 2005

Date of mailing of the international search report

16/08/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Vaglianti, G

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/005590

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AD Y	US 3 942 210 A (CLARK ET AL) 9 March 1976 (1976-03-09)	6
X	figures -----	11
AB Y	US 5 378 051 A (KIRKKALA ET AL) 3 January 1995 (1995-01-03)	8
X	column 3, line 8 - line 12 -----	11
AI A	WO 02/102558 A (DAY INTERNATIONAL, INC) 27 December 2002 (2002-12-27) abstract -----	9

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/EP2005/005590

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 2225152	A1	06-12-1973	NONE	
US 3618436	A	09-11-1971	NONE	
US 3285642	A	15-11-1966	US 3282142 A US 3363496 A	01-11-1966 16-01-1968
US 3604302	A	14-09-1971	NONE	
US 3942210	A	09-03-1976	US 4142267 A	06-03-1979
US 5378051	A	03-01-1995	FI 894378 A FI 86367 B CA 2025556 A1 EP 0419083 A2 US 5155875 A FI 912572 A , B,	19-03-1991 15-05-1992 19-03-1991 27-03-1991 20-10-1992 17-09-1991
WO 02102558	A	27-12-2002	US 2002189419 A1 EP 1404496 A1 JP 2004529784 T WO 02102558 A1	19-12-2002 07-04-2004 30-09-2004 27-12-2002